```
Identification_Information:
        Citation:
                Citation_Information:
                        Originator: U.S. Army Corps of Engineers, Jacksonville
District(comp.)
                        Publication_Date: 20070123
                        Publication_Time: Unknown
                        Title: Tampa Hbr, Lower Tampa Bay, Cuts-A thru Cut-F 43-Foot
Project FY06
                        Edition: 06-101 FY06 Project Condition Survey
                        Geospatial_Data_Presentation_Form: map
                        Publication_Information:
                                Publication_Place: U.S Army Corps of Enginners
Jacksonville District
                                Publisher: U.S. Army Corps of Engineers,
Jacksonville District, Construction-Operations
        Description:
                Abstract:
                        Elevations are in Feet and Tenths and refer to Mean Lower
                        Low Water (MLLW) and reference to NGVD 1929.
                        All elevations are below the reference plane unless
                        preceded by a (+) sign. Tidal reductions were made from
                        multiple tide staffs, NOAA Tide Staff (Automated) St.
                        Petersburg using 0.79' MLLW for Cuts E thru F & NOAA
                        Tide Staff (Automated) Port Manatee using 0.81' MLLW
                        for Cut A, at Sunshine Skyway Bridge, thru Cut D.  Plane
                        coordinates are based on the Transverse Mercator
                        Projection for the West Zone of Florida and referenced to
                        NAD 1983 (NAD83). All azimuths are grid reckoned
                        clockwise from South. All stationing refers to the
Centerline
                        of the Channel. Survey was performed using Differential
                        GPS for positioning and utilizing the Egmont Key USCG
                        Navbeacon System, ID No. 312, as the reference site.
                        Vertical measurements were made using a Reson
                        Multi-Beam Echo Sounder with a 200KHS (High
                        Frequency) Hull-Mounted Transducer. Vessel Florida, Date
                        of Survey 01-04 & 22-23 May 2006.  Aids to Navigation
                        were located during this survey. Survey accuracy
                        performance standards, quality control and quality
                        assurance requirements were followed during this survey in
                        accordance with USACE EM 1110-2-1003, Hydrographic
                        Surveying, 1 Jan 02.
                Purpose: Project Condition Survey Fy06
                Supplemental_Information: This data set consists of 31 sheets at a
scale of 1" = 100'.
        Time_Period_of_Content:
                Time_Period_Information:
                        Range_of_Dates/Times:
                                Beginning_Date: 20060501
                                Ending_Date: 20060523
                Currentness_Reference: Ground Condition
        Status:
                Progress: Complete
                Maintenance_and_Update_Frequency: As needed
        Spatial_Domain:
                Bounding_Coordinates:
                        West_Bounding_Coordinate: -082.626261
                        East_Bounding_Coordinate: -082.509217
                        North_Bounding_Coordinate: +27.789628
                        South_Bounding_Coordinate: +27.635345
        Keywords:
                Theme:
```

```
                Theme_Keyword_Thesaurus: Tri - Service Spatial Data Standard
                Theme_Keyword: Hydrography
        Place:
                Place_Keyword_Thesaurus: Geographic Names Information System
                Place_Keyword: Florida
                Place_Keyword: Hillsborough County
                Place_Keyword: Tampa Bay
                Place_Keyword: Tampa Harbor
    Access_Constraints: None
    Use_Constraints:
        The data represents the results of data
        collection/processing for a specific U.S. Army Corps of
        Engineers activity and indicates the general existing
        conditions.  As such, it is only valid for its intended use,
        content, time, and accuracy specifications.  The user is
        responsible for the results of any application of the data for
        other than its intended purpose.
    Point_of_Contact:
        Contact_Information:
                Contact_Organization_Primary:
                        Contact_Organization: U.S. Army Corps of Engineer
Jacksonville District, Construction-Operation Division
                        Contact_Person: Brain K. Brodehl
                Contact_Position: Chief, Hydrographic Survey Section
                Contact_Address:
                        Address_Type: mailing address
                        Address:
                                U. S. Army Corps of Engineers,
                                Jacksonville District CO-OH
                                701 San Marco Blvd
                        City: Jacksonville
                        State_or_Province: Florida
                        Postal_Code: 32207-8175
                        Country: USA
                Contact_Voice_Telephone: 904-232-3600
                Contact_Facsimile_Telephone: 904-232-3696
                Contact_Electronic_Mail_Address:
brian.k.brodehl@saj02.usace.army.mil
                Hours_of_Service: Any Time
    Data_Set_Credit:
        U.S. Army Corps of Engineers, Jacksonville District,
        Construction-Operation Division, Operation Branch,
        Hydrographic Survey Section
    Security_Information:
        Security_Handling_Description: n/a
        Security_Classification: Other
        Security_Classification_System: n/a
    Native_Data_Set_Environment:
        Data collection and editing using Coastal Oceanagraphics
        Hypack Software and Mapped using Bently Microstation.
Spatial_Data_Organization_Information:
    Direct_Spatial_Reference_Method: Point
Spatial_Reference_Information:
    Horizontal_Coordinate_System_Definition:
        Planar:
                Grid_Coordinate_System:
                        Grid_Coordinate_System_Name: State Plane Coordinate
System 1983
                        State_Plane_Coordinate_System:
                                SPCS_Zone_Identifier: 0902
                                Transverse_Mercator:
                                        Scale_Factor_at_Central_Meridian:
0.9999411765
```

```
                                        Longitude_of_Central_Meridian:
-082.000000
                                        Latitude_of_Projection_Origin:
+24.200000
                                        False_Easting: 656166.67
                                        False_Northing: 0 M
                        Planar_Coordinate_Information:
                                Planar_Coordinate_Encoding_Method: coordinate pair
                                Coordinate_Representation:
                                        Abscissa_Resolution: 0.01
                                        Ordinate_Resolution: 0.01
                                Planar_Distance_Units: Survey Feet
                Geodetic_Model:
                        Horizontal_Datum_Name: North American Datum of 1983
                        Ellipsoid_Name: Geodetic Reference System 80
                        Semi-major_Axis: 6378137 m
                        Denominator_of_Flattening_Ratio: 298.25722
        Vertical_Coordinate_System_Definition:
                Altitude_System_Definition:
                        Altitude_Datum_Name: National Geodetic Vertical Datum of
1929
                        Altitude_Resolution: 0.0
                        Altitude_Distance_Units: Feet
                        Altitude_Encoding_Method: Explicit elevation coordinate
included with horizontal coordinates
                Depth_System_Definition:
                        Depth_Datum_Name: NGVD 1929 with Mean Lower Low Water Datum
(-0.81 & 0.79') applied
                        Depth_Resolution: 0.1
                        Depth_Distance_Units: Feet
                        Depth_Encoding_Method: Explicit depth coordinate included
with horizontal coordinates
Distribution_Information:
        Distributor:
                Contact_Information:
                        Contact_Organization_Primary:
                                Contact_Organization: U.S. Army Corps of Engineers
Jacksonville District, Construction-Operation Division
                                Contact_Person: Brian K. Brodehl
                        Contact_Position: Chief, Hydrographic Survey Section
                        Contact_Address:
                                Address_Type: mailing and physical address
                                Address:
                                        U.S. Corps of Engineers,
                                        Jacksonville District CO-OH
                                        701 San Marco Blvd
                                City: Jacksonville
                                State_or_Province: Florida
                                Postal_Code: 32207-8175
                                Country: USA
                        Contact_Voice_Telephone: 904-232-3600
                        Contact_Facsimile_Telephone: 904-232-3696
                        Contact_Electronic_Mail_Address:
brian.k.brodehl@saj02.usace.army.mil
                        Hours_of_Service: Any Time
                        Contact_Instructions: n/a
        Resource_Description: Survey 06-101
        Distribution_Liability:
                The data represents the results of data
                collection/processing for a specific U.S. Army Corps of
                Engineers activity and indicates the general existing
                conditions.  As such, it is only valid for its intended use,
                content, time, and accuracy specifications.  The user is
```

```
                responsible for the results of any application of the data for
                other than its intended purpose.
        Standard_Order_Process:
                Digital_Form:
                        Digital_Transfer_Information:
                                Format_Name: DGN
                                File_Decompression_Technique: No compression applied
                        Digital_Transfer_Option:
                                Online_Option:
                                        Computer_Contact_Information:
                                                Network_Address:
                                                        Network_Resource_Name:
www.saj.usace.army.mil/hydroSurvey/hydro.htm
                                        Access_Instructions:
www.saj.usace.army.mil/hydroSurvey/hydro.htm
                Fees: N/A
Metadata_Reference_Information:
        Metadata_Date: 20070123
        Metadata_Review_Date: 20070123
        Metadata_Contact:
                Contact_Information:
                        Contact_Organization_Primary:
                                Contact_Organization: U.S. Army Corps of Engineer
Jacksonville District, Construction-Operation Division
                                Contact_Person: Brian K. Brodehl
                        Contact_Position: Chief, Hydrographic Survey Section
                        Contact_Address:
                                Address_Type: mailing address
                                Address:
                                        U.S. Army Corps of Engineers,
                                        Jacksonville District CO-OH
                                        701 San Marco Blvd
                                City: Jacksonville
                                State_or_Province: Florida
                                Postal_Code: 32207-8175
                                Country: USA
                        Contact_Voice_Telephone: 904-232-3600
                        Contact_Facsimile_Telephone: 904-232-3696
                        Contact_Electronic_Mail_Address:
brian.k.brodehl@saj02.usace.army.mil
                        Hours_of_Service: Any Time
                        Contact_Instructions: n/a
        Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial
Metadata
        Metadata_Standard_Version: FGDC-STD-001-1998
        Metadata_Time_Convention: Local time
        Metadata_Access_Constraints: None
        Metadata_Use_Constraints:
                The data represents the results of data
                collection/processing for a specific U.S. Army Corps of
                Engineers activity and indicates the general existing
                conditions.  As such, it is only valid for its intended use,
                content, time, and accuracy specifications.  The user is
                responsible for the results of any application of the data for
                other than its intended purpose.
        Metadata_Security_Information:
                Metadata_Security_Handling_Description: n/a
                Metadata_Security_Classification: Unclassified
                Metadata_Security_Classification_System: n/a
```